

Exhibit 1 – Purpose of Request for Experimental License
Reference: FCC Form 442, Item 7

a). Description of the complete program of research and experimentation proposed (including description of equipment and theory of operation):

Experimental authority is requested to enable Shure Incorporated (“Shure”) to develop, test and evaluate new Wireless Multi-Channel Audio Systems (“WMAS”) equipment in the 470-608 MHz band. This work is being carried out consistent with the Commission’s Notice of Proposed Rule Making (“NPRM”), released April 22, 2021, in the matter of “Amendment of Parts 15 and 74 of the Rules for Wireless Microphones in the TV Bands, 600 MHz Guard Band, 600 MHz Duplex Gap, and the 941.5- 944 MHz, 944-952 MHz, 952.850-956.250 MHz, 956.45-959.85 MHz, 1435-1525 MHz, 6875-6900 MHz and 7100-7125 MHz Bands,” ET Docket No. 21-115.

WMAS technology can enable significant increases in audio capacity and can support and coordinate simultaneous bidirectional operation of multiple wireless microphone devices including wireless microphones, personal monitoring (“PSM”), intercom, conferencing, with higher channel counts on the same platform.

Approximately sixteen prototype units will be deployed so that Shure can field test its WMAS product to address the diverse needs of its customers within the professional audio industry.

b.) Description of the specific objectives sought to be accomplished:

In the above-referenced NPRM, the Commission recognizes the potential of WMAS technology to enhance spectral efficiency and seeks comment on various technical and service rule proposals aimed at enabling WMAS operations. In order to optimize WMAS systems for efficient use and effective co-existence with other services, Shure has determined that bona fide field tests will be helpful to its further development of this technology. Any operations in the 6875-6900 MHz and 7100-7125 MHz bands will go through pre-coordination with SBE per FCC rules.

c. Description of how the program of experimentation has a reasonable promise of contribution to the development, extension, expansion or utilization of the radio art, or is along lines not already investigated:

WMAS devices are not currently expressly contemplated by the Commission’s rules but Shure (and other manufacturers) have been working on WMAS development for deployment in other countries. Accordingly, domestic WMAS deployments remain in a relatively nascent stage of commercialization. However, in the above-referenced NPRM, the Commission has proposed authorizing such operations in the United States in future. Although the exact nature of these devices cannot be determined at this time, Shure believes that enough is known about their probable characteristics to enable useful experimental work to be done. Furthermore, Shure believes that its findings from direct testing and implementation will enrich the knowledge and experience with this technology. Shure looks forward to contributing insights on this technology into the public record to inform the Commission’s decision making process in the WMAS rulemaking proceeding.

Sincerely,

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